



PVDF (polyvinylidene fluoride) is a highly crystalline thermoplastic. Keeps your electrical, thermal and mechanical in a wide temperature range (-40 to 150 ° C). It is highly resistant to weathering and especially UV rays and Gamma.

It is dimensionally stable and resistant to a wide range of chemical agents, flame retardant, low smoke emission which makes the a good electrical insulator.

Unlike PTFE and other thermoplastics, it has a high resistance to mechanical deformation. It does not absorb water. It is absolutely non-toxic and can be used directly in contact with food. Good machining.

These properties may be enhanced by additives such as fiberglass or carbon fiber.

FEATURES	METHOD	UNIT	VALUE
DENSITY	DIN 53 479	gr/cm <sup>3</sup>	1,78
RESISTANCE TENSILE STRAIN	DIN 53 455	Mpa	55
BREAKING EXTENSION	DIN 53 457	%	20 - 400
ELASTICITY MODULE AFTER TRACTION	DIN 53 452	Mpa	2000
INDENTATION BALL HARDNESS	30s DIN 53 456	Mpa	105
MELTING POINT	DIN 53 736	°C	178
GLASS TRANSITION TEMPERATURE	53 736	°C	-18
HEAT DISTORTION TEMPERATURE	53 461	°C	140
MAX. TEMPERATURE SHORT PERIODS		°C	150
MOISTURE ABSORPTION	DIN 53 715	%	<0,04
WATER ABSORPTION SATURATION	DIN 53 495	%	<0,04